



# Testing Reagents



Hach is the world's leading supplier of water testing equipment that provides accurate, efficient and easy to carry out water analysis. A wide selection of measuring equipment is available for field and laboratory use that can test various parameters, all of which need specific reagents. The commonly used ones are detailed below, though others for more specialised parameters are available on request.

## PHYSIOCHEMICAL TESTS

Parameter	Reagents	Range	Tests/Packet	
Alkalinity	Alkalinity Reagent Set for Digital Titrator	10 - 4,000 mg/L CaCO <sub>3</sub>	Pk/100	
	Alkalinity (Total) TNTplus Vial Test, 25 vials	25 – 400 mg/L CaCO <sub>3</sub>		
	Alkalinity Test Kit	0 - 400 mg/L CaCO <sub>3</sub>		
Aluminium	AluVer 3 Aluminum Reagent Powder Pillows	0.008 - 0.800 mg/L Al		
	Aluminum Reagent Set, Aluminon	0.008 - 0.800 mg/L Al		
	Aluminum Reagent Set, ECR method	0.002 - 0.220 mg/L, Al		
Ammonia/ Ammonium	Nessler Reagent Solution, 500mL, 1000mL	0.02 - 2.50 mg/L NH <sub>3</sub> -N		
	Ammonium Ionic Strength Adjustor (ISA) Powder	0.01 - 10 mg/L NH <sub>3</sub> -N		
	Ammonia TNTplus Vial Test, ULR, 25 vials	0.15 – 2.00 mg/L NH <sub>3</sub> -N		
	Ammonia Salicylate Reagent Powder Pillows	0.01 - 0.50 mg/L NH <sub>3</sub> -N		
Barium	Bariver3, Barium Reagent Powder Pillows	2 - 100 mg/L Ba		
Boron	Borover 3,Boron Reagent Powder Pillows	0.2 - 14.0 mg/L B		
	Boron Standard Solution, 1000 mg/L as B (NIST),100mL			
Calcium Hardness	Hardness (Calcium) Reagent Set, LR & HR for Digital Titrator or Buret	10 -160 mg/L;100 - 4,000 mg/L; 0 – 5,000 mg/L CaCO <sub>3</sub>		
Chlorine (Free/Total)	Chlorine (Free and Total) Reagent Set, DPD, Powder Pillows	0.02 - 2.00 mg/L Cl <sub>2</sub>	Pk/1000	
	Free Chloride DPD Reagent Powder Pillows	0.1 - 10.0 mg/L Cl <sub>2</sub> 0.05 - 4.00 mg/L Cl <sub>2</sub>		
Chloride	Chloride Reagent Set, Silver Nitrate Digital Titrator, Full Range	10 - 100mg/L; 100-10,000mg/Cl	Pk/100	
	Chlorine Reagent Set, Mercuric Nitrate Digital Titrator	10 - 160mg/L; 100-8,000mg/L Cl		
Copper	CuVer® 1 Copper Reagent Powder Pillows	Up to 5.00 mg/L Cu		
Fluoride	Fluoride Ionic Strength Adjustor (ISA) Powder Pillows	0.01 mg/L to saturated	Pk/250	
	SPADNS 2 (Arsenic-free) Fluoride Reagent Solution, 1,000mL	0.02 - 2.00 mg/L F-		
Iron	FerroVer Iron Reagent Powder Pillows	0.02-3.00mg/L Fe	Pk/100	

Parameter	Reagents	Range	Tests/Packet
<b>Manganese</b>	Manganese Reagent Set, LR, PAN	0.006 - 0.700 mg/L Mn	Pk/100
	Manganese Reagent Set, HR, Periodate Oxidation	0.1-20.0 mg/L Mn	
<b>Magnesium</b>	Hardness Reagent Set, Calmagite Colorimetric	0.05 - 4.00 mg/L CaCO <sub>3</sub>	
<b>Nitrate</b>	NitriVer® 3 Nitrite Reagent Powder Pillows	0.1 to 10.0 or 0.3 to 30.0 mg/L as nitrate-N	
<b>Nitrite</b>	NitriVer® 2 Nitrite Reagent Powder Pillows	2 - 250 mg/L NO <sub>2</sub>	
<b>Phosphorus/ Phosphate</b>	PhosVer® 3 Phosphate Reagent Powder Pillows	0.02 - 2.50 mg/L PO <sub>4</sub>	
<b>Potassium</b>	Potassium Reagent Set	0.1 - 7.0 mg/L K	
<b>Silica</b>	Silica Reagent Set, High Range	1 - 100 mg/L SiO <sub>2</sub>	
<b>Sodium</b>	Sodium/Potassium Ionic Strength Adjustor (ISA) Powder Pillows	10 - 2,000 µg/L Na+	
<b>Sulphates</b>	SulfaVer® 4 Sulfate Reagent Powder Pillows	2 to 70 mg/L SO <sub>4</sub>	
<b>Total Hardness</b>	Hardness (Total) Reagent Set, LR,HR for Digital Titrator	10-160 mg/L; 100-4,000 mg/L CaCO <sub>3</sub>	
	Hardness Reagent Set, Calmagite Colorimetric	0.05 - 4.00 mg/L as CaCO <sub>3</sub>	
<b>Zinc</b>	ZincoVer® 5 Zinc Reagent Powder Pillows	0.01 to 3.00 mg/L Zn	

## BACTERIOLOGICAL TESTS

Parameter	Reagents	Tests/Packet
<b>Total Coliforms and E.Coli</b>	Prepared agar plates m-ColiBlue24 - Ready-to-use media and give simultaneous results for total coliforms and E. coli	Pk/15
<b>Enterococci</b>	m-EI prepared agar plates - Detection by the membrane filtration method (MF)	
<b>Total Bacteria</b>	Total Bacteria Media Set	Pk/25
<b>Pseudomonas Aeruginosa</b>	Pseudomonas Broth, Plastic Ampules	Pk/50
<b>Iron-related Bacteria</b>	BART test, iron-related bacteria	Pk/9

## WASTE WATER TESTS

Parameter	Reagents	Range	Tests/Packet
<b>BOD</b>	Nitrification Inhibitor for BOD, Formula 2533, TCMP	Nitrification Inhibitor	2500
<b>COD</b>	COD Digestion Vials, High Range	20 - 1500 mg/L CO	Pk/150
<b>Total Nitrogen</b>	Nitrogen, total, TNT	0.5 - 25 mg/L N	25 to 50 tests
<b>Total Organic</b>	TOC TNTplus Vial Test	0.06 - 3.5 mg/L PO <sub>4</sub>	25 tests

## HEAVY METALS

Parameter	Reagents	Range	Tests/Packet
<b>Arsenic</b>	Arsenic Low Range, LR Test Kit	0 - 500 ppb As	Pk/100
	Arsenic High Range, HR Test Kit	0 - 4000 ppb As	
<b>Chromium</b>	Chromium Total Reagent Set	0.10 - 0.700mg/L	

## STANDARD SOLUTIONS

Parameter	Reagents	Range
<b>PH</b>	Buffer	pH 4.01, pH 7.00, pH10.00
<b>Conductivity (EC) Standards</b>	Conductivity Standard Solution	1,412 µS/cm ±10% at 25°C, 745.5 mg/L ±10%, 0.01M KCl
	Singlet Single-use Conductivity Standard Solution	1,413 µS/cm, KCl
	Conductivity Standard Solution	18,000 µS/cm, NaCl
	Sodium Chloride Standard Solution	491 mg/L NaCl (1,000 µS/cm)
<b>Total Dissolved Solids (TDS) Standard</b>	Natural Water Standard Solution	3000ppm TDS
<b>Other Standards</b>	Chemical reagent standards, Spectrophotometer standards, Turbidity meter standards, Hqd meter standards.	